

Figure 1A
(Prior Art)

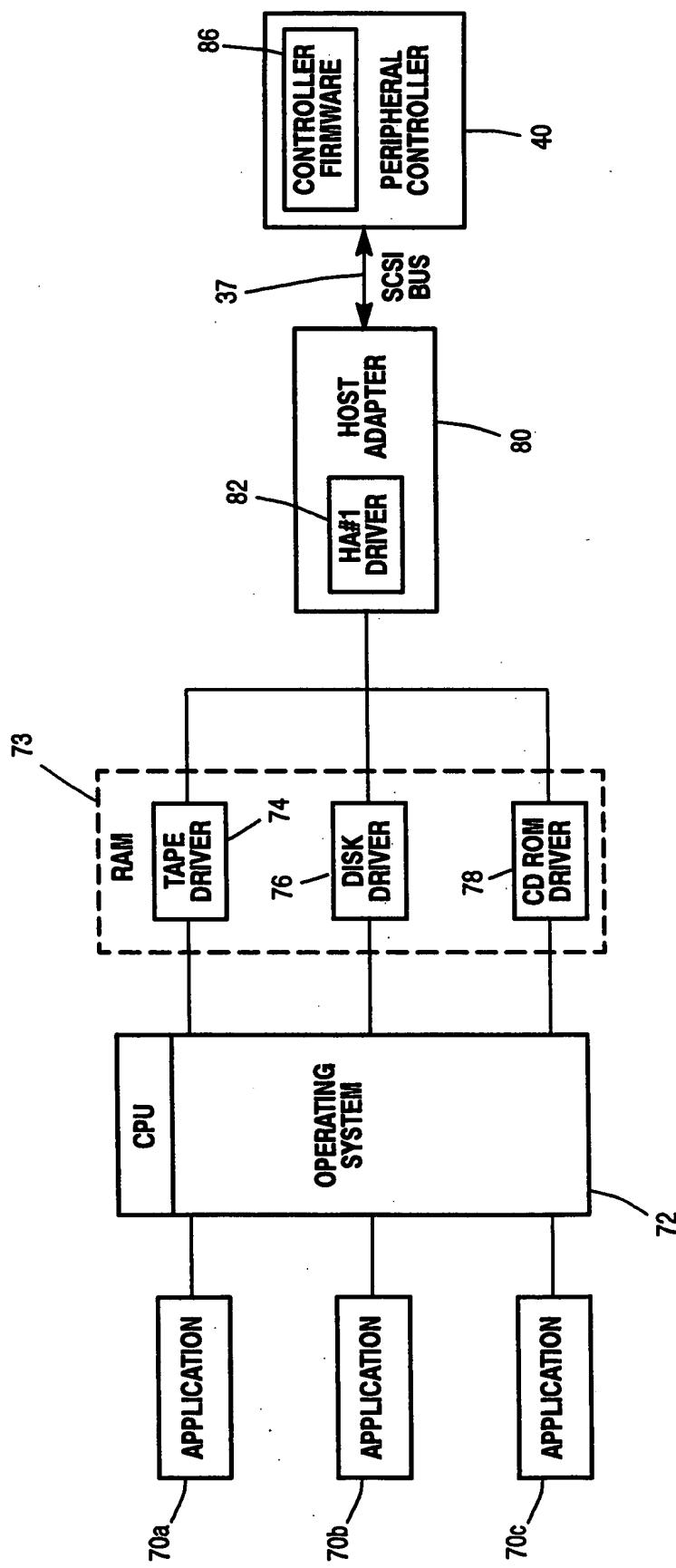


Figure 1B
(Prior Art)

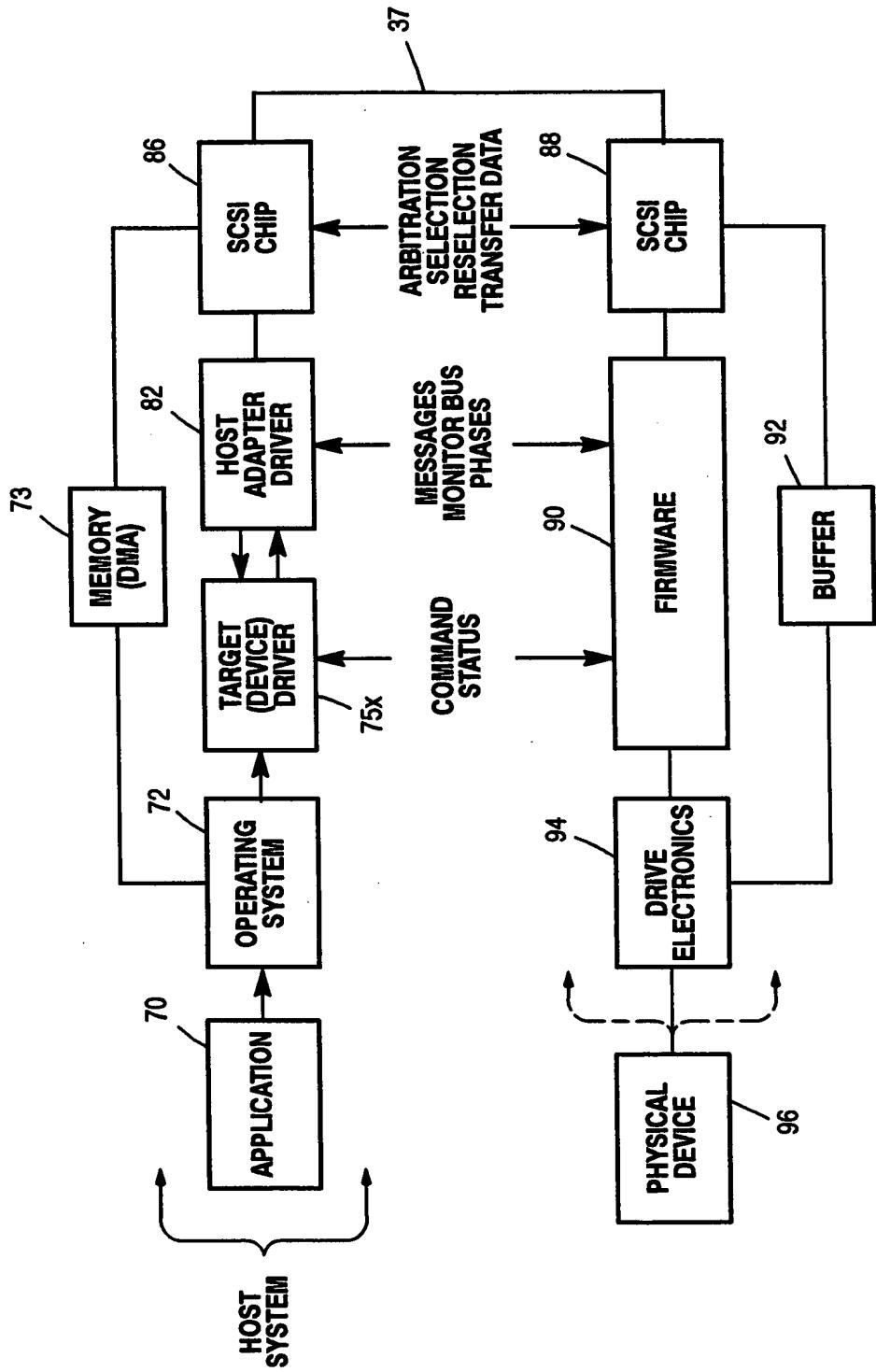


Figure 1C
(Prior Art)

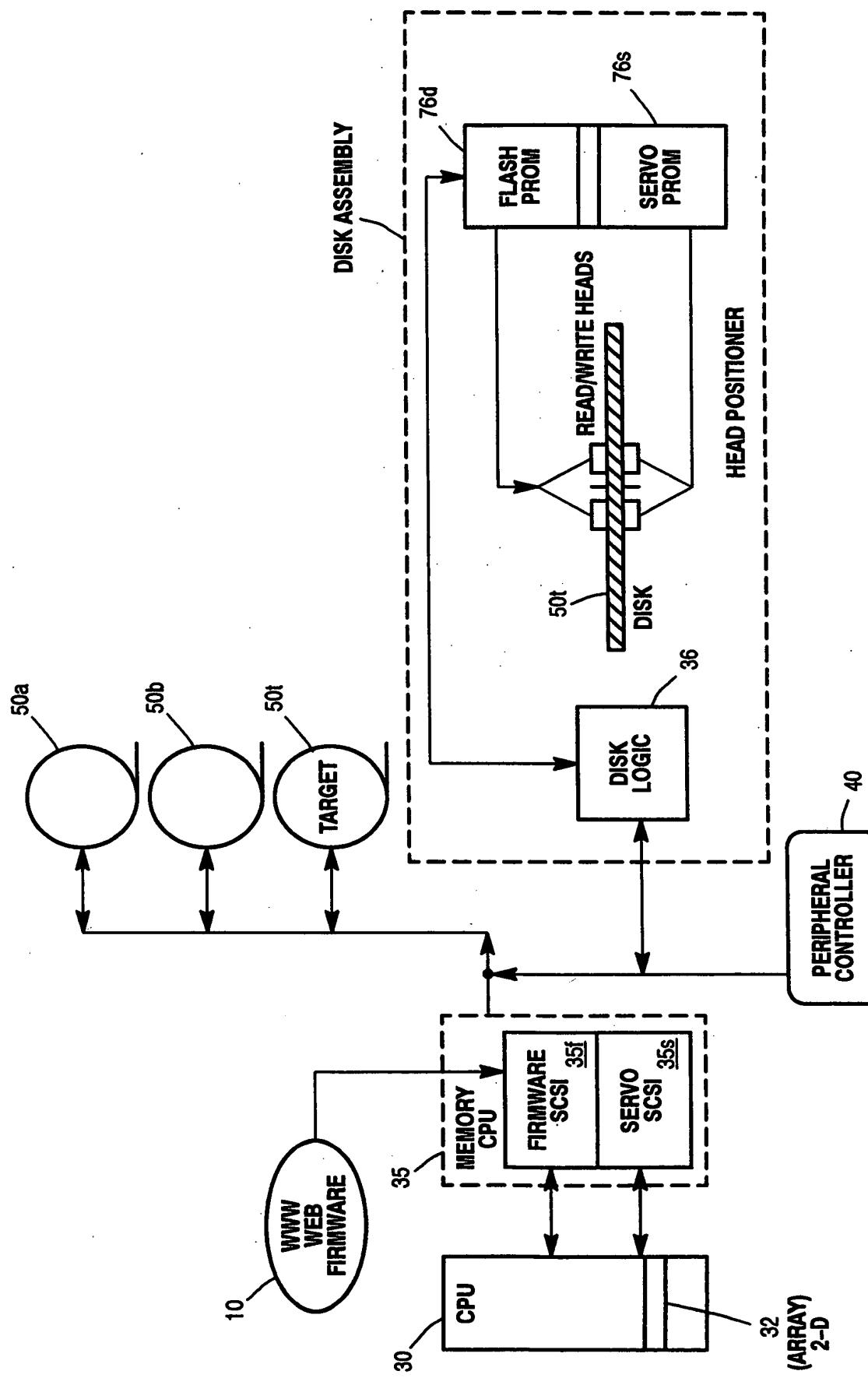


Figure 1D
(Prior Art)

TYPICAL TWELVE-BYTE CDB
(TABLE 23)

	BIT 7	BIT 6	BIT 5	BIT 4	BIT 3	BIT 2	BIT 1	BIT 0
BYTE 0								OPERATION CODE
BYTE 1	LOGICAL UNIT NUMBER							RESERVED
BYTE 2 (MSB)								
BYTE 3	LBA = LOGICAL BLOCK ADDRESS (IF REQUIRED)							
BYTE 4								
BYTE 5								
BYTE 6 (MSB)								
BYTE 7	TRANSFER LENGTH (IF REQUIRED)							
BYTE 8	PARAMETER LIST LENGTH (IF REQUIRED)							
BYTE 9	ALLOCATION LENGTH (IF REQUIRED)							
BYTE 10								
BYTE 11								
								RESERVED
								CONTROL BYTE

Figure 2
(Prior Art)

WRITE BUFFER COMMAND

BIT BYTE	7	6	5	4	3	2	1	0
OPERATION CODE (3Bh)								
0		RESERVED		MODE				
1			BUFFER ID					
2								
3	(MSB)		BUFFER OFFSET					
4								
5								
6	(MSB)		PARAMETER LIST LENGTH					
7								
8								
9			CONTROL					

Figure 3
(Prior Art)

WRITE BUFFER MODE FIELD

MODE	DESCRIPTION	IMPLEMENTATION REQUIREMENTS
000b	WRITE COMBINED HEADER AND DATA	OPTIONAL
001b	VENDOR-SPECIFIC	VENDOR-SPECIFIC
010b	WRITE DATA	OPTIONAL
011b	RESERVED	RESERVED
100b	DOWNLOAD MICROCODE	OPTIONAL
101b	DOWNLOAD MICROCODE AND SAVE	OPTIONAL
110b	DOWNLOAD MICROCODE WITH OFFSETS	OPTIONAL
111b	DOWNLOAD MICROCODE WITH OFFSETS AND SAVE	OPTIONAL

Figure 4
(Prior Art)

OPERATION CODE

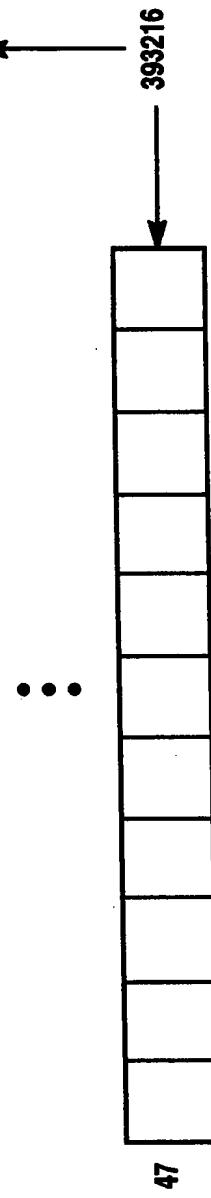
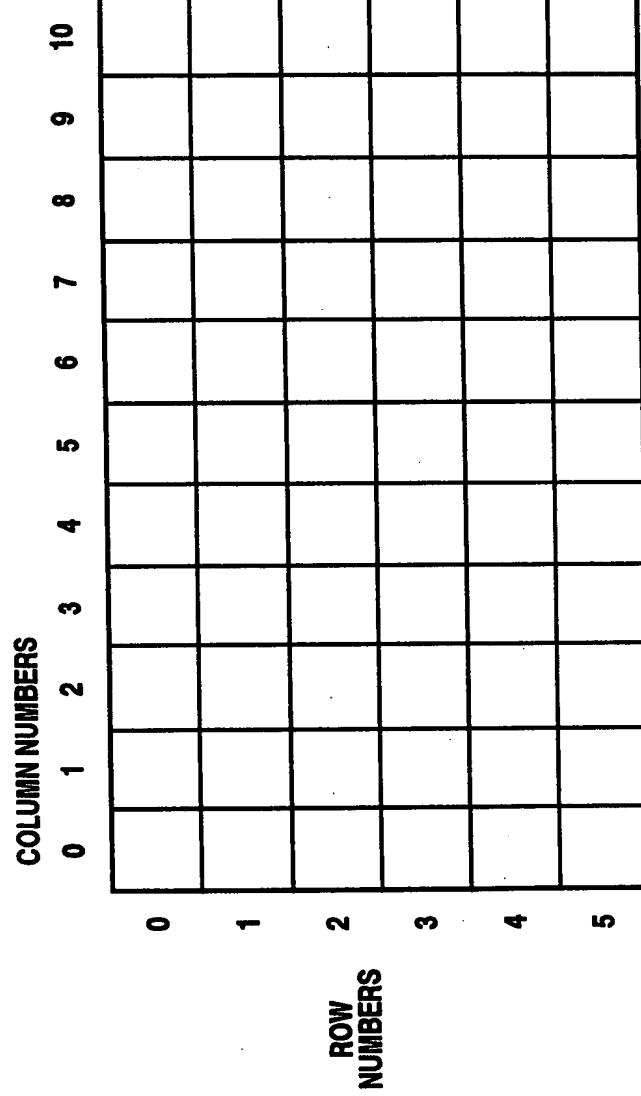
BITS	7	6	5	4	3	2	1	0
BYTE 0	GROUP CODE				COMMAND CODE			

GROUP CODE FIELD

GROUP	BIT 7	BIT 6	BIT 5	NUMBER OF COMMAND BYTES
0	0	0	0	SIX
1	0	0	1	TEN
2	0	1	0	TEN (NEW IN SCSI-2)
3	0	1	1	RESERVED
4	1	0	0	RESERVED
5	1	0	1	TWELVE
6	1	1	0	VENDOR SPECIFIC
7	1	1	1	VENDOR SPECIFIC

Figure 5
(Prior Art)

**TWO DIMENSIONAL ARRAY
(MATRIX)**



ARRAY BUFFER [0:47, 0:8191]

Figure 6

DFAST

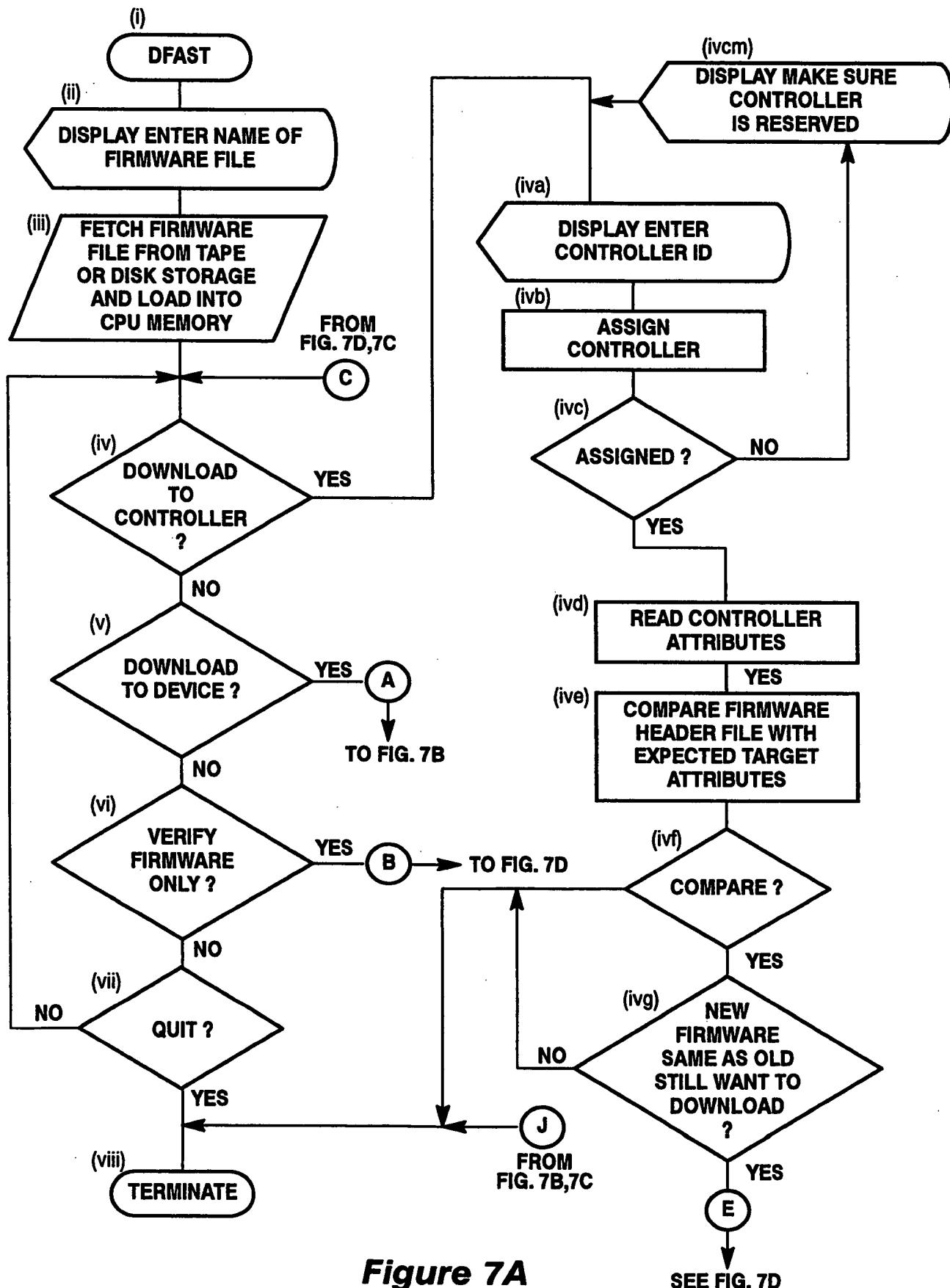
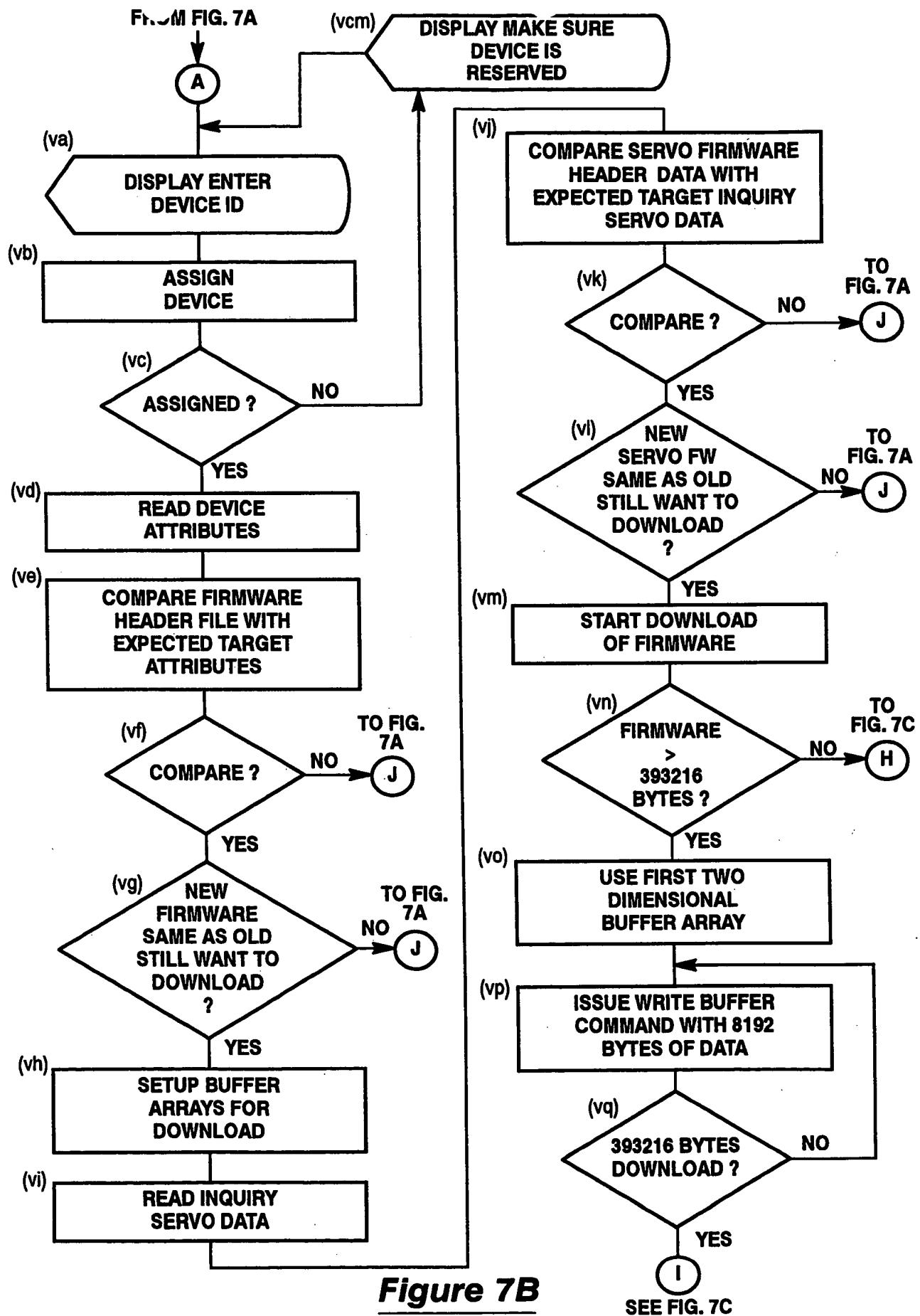


Figure 7A



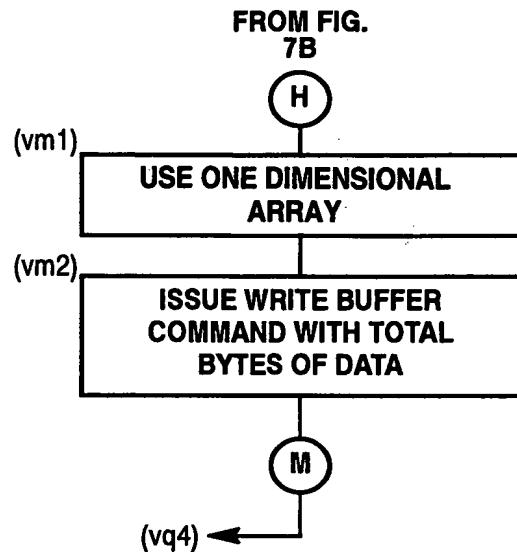
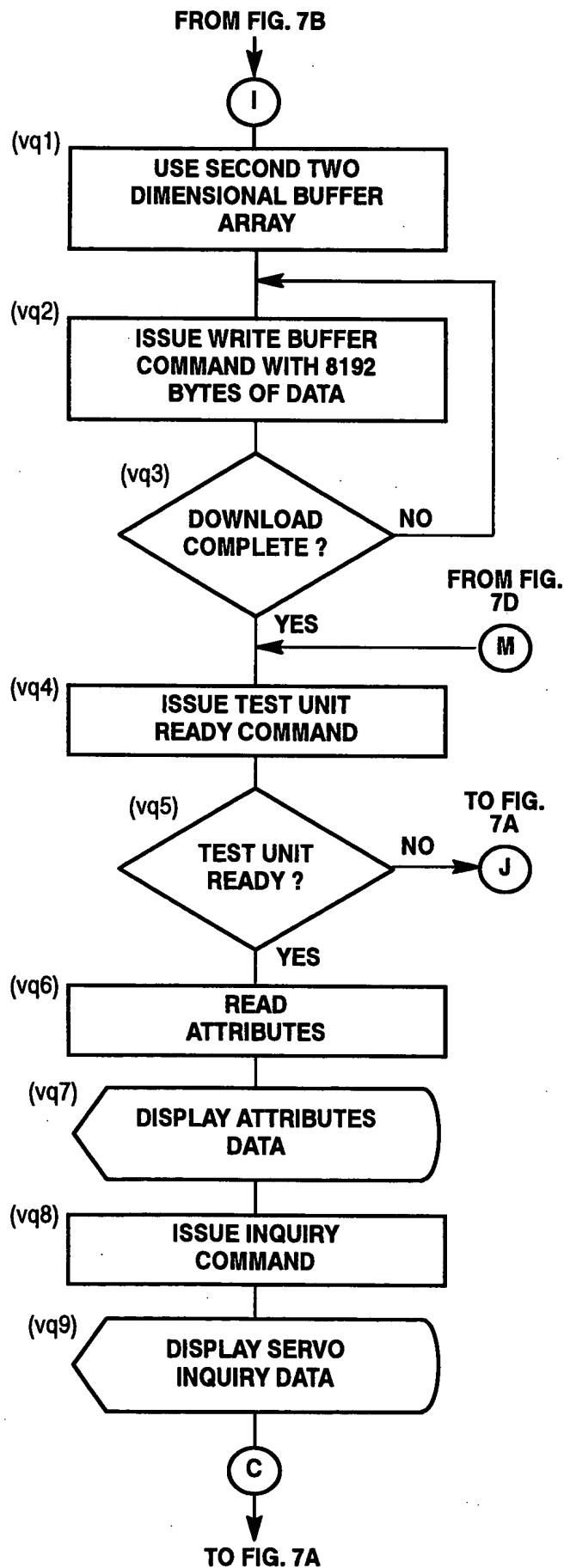


Figure 7C

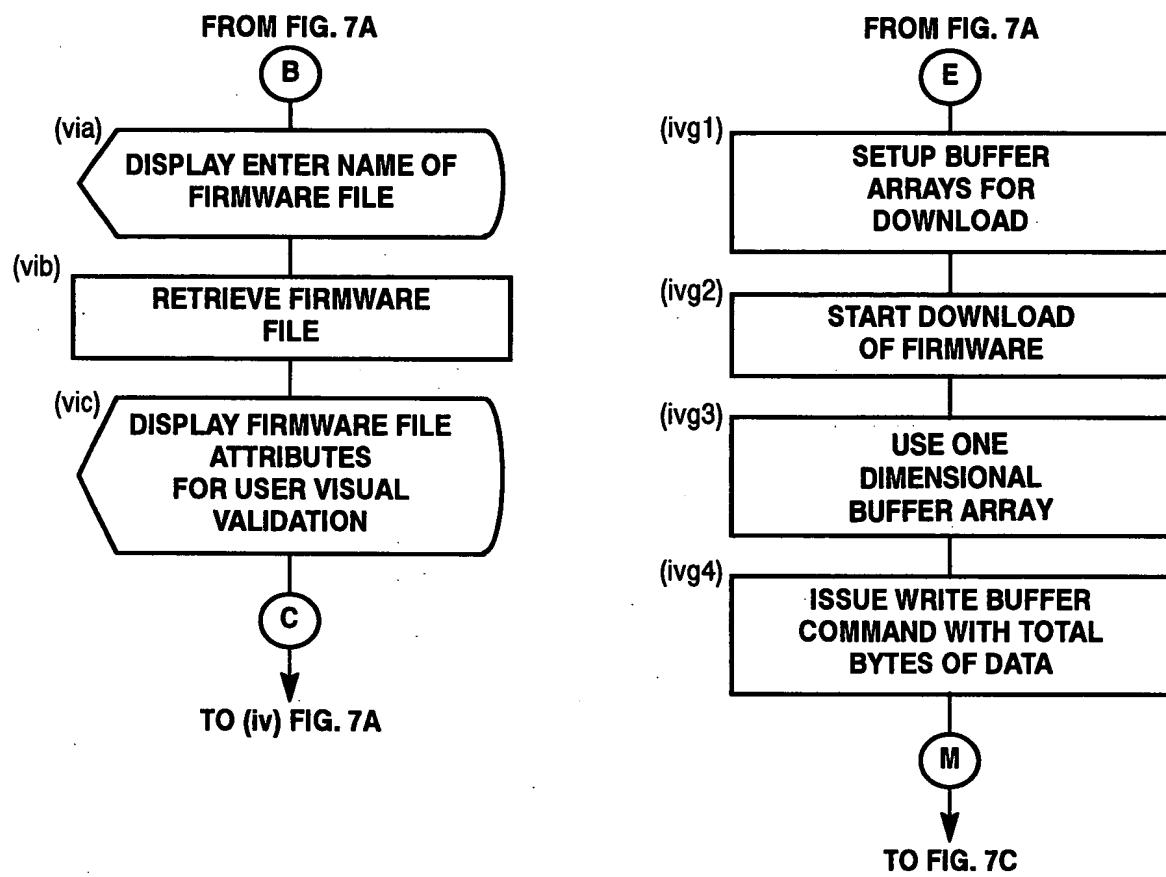


Figure 7D